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DEPARTMENT OF THE ARMY JUSTIFICATION OF ESTIMATES FOR
FISCAL YEAR 1984 PR... (U) DEPUTY CHIEF OF STAFF FOR
RESEARCH DEVELOPMENT AND ACQUISITIO... JAN 83

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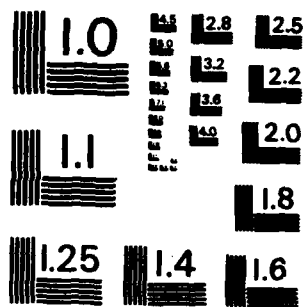
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DA 126593

January 1983

FORWARD

The DD Forms 1391 contained herein provide the justification data required to support the Fiscal Year 1984 Army Procurement Budget Estimates as submitted to Congress in January 1983. Projects for the Procurement of Weapons and Tracked Combat Vehicles, Army appropriation are reflected on pages 1-13, and for the Procurement of Ammunition, Army appropriation on pages 14-24.

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DEPARTMENT OF THE ARMY
JUSTIFICATION OF ESTIMATES FOR FISCAL YEAR 1984
SUMMARY

P-1 Line No: 27

Appropriation: Procurement of Weapons and Tracked Combat Vehicles, Army
Activity 1 - Tracked Combat Vehicles.

<u>Installation</u>	<u>Project No.</u>	<u>Project Title</u>	<u>Cost Estimate (Million)</u>	<u>Page No.</u>
Lima Army Tank Plant, Ohio	4846037	Production Support Equipment Replacement for LATP	8.3	1
Detroit Arsenal Tank Plant, Warren, MI	4846036	Production Support and Equipment Replacement for the DATP	2.0	4
* Stratford Army Engine Plant, Stratford, CT	7848174	Spt-Facility Rehabilita- tion for the Stratford Army Engine Plant	6.0	8
Mainz Army Depot (MZAD) Mainz, Germany	4842006	Modernization of MZAD Complex	15.8	10

P-1 Line No: 48

Appropriation: Procurement of Weapons and Tracked Combat Vehicles, Army
Activity 2 - Weapons and Other Combat vehicles

<u>Installation</u>	<u>Project No.</u>	<u>Project Title</u>	<u>Cost Estimate (\$Million)</u>	<u>Page No.</u>
Ethan Allen Firing Range, Jericho, VT	6836986	Impact Area	.2	12

* This plant is also used to produce the AGT 1500 turbine engines used in the UH-1, AH-1, and CH-47 Helicopters and the OV-1 Aircraft.

DEPARTMENT OF THE ARMY
JUSTIFICATION OF ESTIMATES FOR FISCAL YEAR 1984
SUMMARY

P-1 Line No: 57

Appropriation: Procurement of Ammunition, Army

Activity 2 - Production Base Support

<u>ARMY AMMUNITION PLANT (AAP)</u>	<u>PROJECT NO.</u>	<u>PROJECT TITLE</u>	<u>CONSTRUCTION COST ESTIMATE (MILLIONS)</u>	<u>PAGE NO.</u>
Iowa AAP, IA	5845333	Barricades	2.000	14
Lake City AAP, MO	5845332	Fire Alarm System	.380	15
	5845332	Fuel Oil Tank Replacement	.220	16
Lone Star AAP, TX	5842041	Family of Scatterable Mines	1.300	17
Longhorn AAP, TX	5845327	Shield Test Facility	.270	18
Milan AAP, TN	5845317	On Line Storage Facility	.340	19
Radford AAP, VA	5840084	155mm Stick Propellant	2.100	20
	5845326	Fuel Storage Facilities	.870	21
	5845326	Barricades	1.650	22
Scranton AAP, PA	5845342	Lighting Upgrade	.660	23
	5845342	Compressed Air Dryers	.340	24

Ammunition Production
Base Construction

TOTAL

10.130

1. COMPONENT Army		FY 1984 MILITARY CONSTRUCTION PROJECT DATA		2. DATE 31 Jan 83	
3. INSTALLATION AND LOCATION Lima Army Tank Plant Lima, OH			4. PROJECT TITLE Production Support & Equipment Replacement for LATP		
5. PROGRAM ELEMENT		6. CATEGORY CODE		7. PROJECT NUMBER 4846037	
				8. PROJECT COST (\$000) \$8,330	
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)
SP #3	Install Auto Coal Handling Sys	LS			200
SP #4	Rehab Roof Section A Bld #147	LS			1,084
SP #5	High Rise Storage & Retrieval Sys	LS			5,206
SP #6	Rehab Powerhouse Equip/Fac	LS			200
SP #7	Rehab Roads & Storage Area Hard Stand	LS			650
SP #8	Conversion of Paint Line Equip from Gas to Steam	LS			990
					8,330
10. DESCRIPTION OF PROPOSED CONSTRUCTION					
<p>SP#3: This subproject will provide a system to unload coal from incoming railroad cars, automatically, and distribute the coal evenly over the coal bulk storage pile.</p> <p>SP#4: The purpose of this subproject is to repair and rehabilitate the roof, replace existing roof drains, and replace the gutters on the west edge of the roof (Section A).</p> <p>SP#5: This subproject will provide for the purchase and installation of a new storage facility for vendor parts and MFB parts. Included is a computer controlled location system with automatic storage and retrieval.</p> <p>SP#6: This subproject will provide for various revisions and additions to the powerhouse including installation of an economizer, a dust separator/collector on Boiler No. 4, rearrange various room equip and install modern electronic equipment on Boilers 3 and 4.</p> <p>SP#7: The purpose of the subproject is to provide for necessary repairs, improvements, restripping and resurfacing of installation roads; and the repair, and resurfacing of storage hardstands at LATP.</p>					

1. COMPONENT Army	FY 1984 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 31 Jan 83
3. INSTALLATION AND LOCATION Lima Army Tank Plant Lima, OH		
4. PROJECT TITLE Production Support & Equipment Replacement for LATP		5. PROJECT NUMBER 4846037
10. DESCRIPTION OF PROPOSED CONSTRUCTION (Continued)		
<p>SP#8: This subproject will provide for conversion of the existing paint booths air supply houses, bake oven, and miscellaneous small heaters for direct fired gas to steam heat.</p>		
11. REQUIREMENT		
<p>SP#3:</p> <p>a. The present method of unloading railroad cars is with a clam shell bucket on a mobile crane. The coal, that cannot be removed with the crane, is unloaded through the bottom discharge gates of the railroad cars, into a portable conveyor, to a front end loader and then to the pile. A bulldozer then distributes the coal across the top of the pile.</p> <p>b. The coal is moved to the Powerhouse by loading into the on-site railroad hopper cars and using a locomotive to move the cars. At the Powerhouse, the coal is unloaded through the railroad car discharge gates and into a bucket conveyor that carries the coal up into the silo.</p> <p>c. Much coal is turned to dust by the present handling methods and has little or no fuel value. This multiple handling also requires more manpower usage than will be required with the proposed system.</p> <p>d. The existing coal handling system is inadequate for the present steam demand.</p>		
<p>SP#4:</p> <p>a. The existing roofs for the shipping dock, office and monitors are worn and cracked in places, the travel is uneven and sparse and the general condition is poor.</p> <p>b. The existing main roof is a rolled and capped installation. Gravel on the roof is uneven and missing in walk areas. The general condition of material on the roof is dried and cracked and needs to be entirely resurfaced.</p> <p>c. Presently the gutters on the east edge of the roof are damaged from ice and wear, are rusted out and support brackets have broken loose.</p> <p>d. Present roof drains are damaged or eroded or are not properly flashed to the existing roof.</p>		
<p>SP#5:</p> <p>a. Presently parts storage is scattered in several areas in the facility, causing substantial inefficiency and loss of control.</p> <p>b. Current storage areas cause loss of efficiency in assignment of handling equipment and manpower, longer travel to and from areas, reduction in security, and excessive handling damage.</p>		

1. COMPONENT Army	FY 1984 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 31 Jan 83
3. INSTALLATION AND LOCATION Lima Army Tank Plant Lima, ON		
4. PROJECT TITLE Production Support & Equipment Replacement for LATP		5. PROJECT NUMBER 4846037
<p>11. REQUIREMENT (Continued)</p> <p>SP#6:</p> <p>a. The existing Boiler No. 4 system routes flyash-laden flue gas through breeching, directly to an induced draft fan and on to the precipitator. The fan accelerates flyash to a very high velocity in the fan housing causing abrasive degradation of the fanwheel. The existing fanwheel, newly installed in 1977, failed at the end of its second heating season, 1979-80. Currently, there is no economizer on Boiler No. 4.</p> <p>b. The condensate pumps in Room #107, Powerhouse are located extremely close to the ash tunnel wall (i.e., the west wall of Room #107). The northernmost pump, and Ingersoll-Ran condensate pump with speed control governor installed allows no more than sixteen inches clearance. The southernmost condensate pump manufactured by Veinman Pump Co. is mounted too close to the west wall of Room #107 to install its speed control governor.</p> <p>c. The existing flue gas analyzers have both a temperature sensor and an oxygen analyzer sensor mounted in a sample box/filter. Each of these sensors is connected to its own capillary tube which is in turn connected to a receiver. The receiver converts the flue gas information to a signal acceptable to the circular chart recorder located in the Control Room. Each boiler has its own flue gas analyzer system.</p> <p>d. Various floor areas in the Powerhouse are not sloped to existing floor drains. The operating floor has no floor drains. Currently, water collects in low spots in the floor and must be removed manually.</p> <p>SP#7:</p> <p>a. The existing hardstand has and is forming a number of potholes and is deteriorating into an unstable surface.</p> <p>b. The catch basins have deteriorated and caved in causing erosion of ground surface.</p> <p>c. The existing installation roadways are beginning to form a number of large potholes and deteriorate into an unstable surface. The resurfacing and restripping of the roadway is required to halt the deterioration of the roads and restore it to a safe and stable condition for vehicles and pedestrians.</p> <p>d. Some roads are breaking up at present which is due to high berms and substrata erosion. Proper road shoulders and a proper drainage system is required for safety and to prevent substrata erosion of the roads. If further deterioration is allowed, it is possible that the roadbeds themselves will require replacement.</p> <p>e. The drainage system and ditches will require cleaning and grading to allow a good flow for drainage. Regrading will be required of ditches to allow good drainage of area outlined.</p> <p>SP#8:</p> <p>Presently gas supplied burners and heaters demand in excess of 80% of total LATP gas requirements. The existing system has also become a burden to maintain and costly repairs can be expected in the near future.</p>		

1. COMPONENT Army	FY 1984 MILITARY CONSTRUCTION PROJECT DATA		2. DATE 31 Jan 83
3. INSTALLATION AND LOCATION Detroit Arsenal Tank Plant Warren, MI		4. PROJECT TITLE Production Support & Equipment Replacement for the DATP	
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER 4846036	8. PROJECT COST (\$000) \$1,952

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)
SP#1 Paint/Repair Canopy Steel	LS			074
SP#2 Protective Barriers	LS			085
SP#3 Roof Repair	LS			094
SP#4 Gas Storage Bldg	LS			080
SP#5a Oil Storage Area	LS			083
SP#5b Tramp Oil Storage	LS			063
SP#6 Boiler House Improvements	LS			1,232
SP#7 OSHA Improvements	LS			<u>241</u>
				\$1,952

10. DESCRIPTION OF PROPOSED CONSTRUCTION

SP#1:

This subproject is to repair damaged columns, clean off rust, and prime and paint the structural steel of the canopies over R/R Tracks #'s 6-8-9-10 and struc steel on M Bay Crane.

SP#2:

This subproject is to provide protection to interior walls of Bldg 4 (Main Production Plant) from heavy traffic of material handling and service vehicle.

SP#3:

This subproject will provide for the elimination of abandoned sheet metal ductwork that penetrates through the roof of Bldg #4, thus returning the roof to original condition. Also, this subproject will provide access from the interior of Bldg #4 to the roof at various locations. This subproject will provide for a catwalk on the peaks of bldg roof. By constructing various access and walkways on the roof, normal maintenance can be accomplished more economically.

SP#4:

This subproject will provide for the construction of a bottled gas storage building that will meet all existing safety codes, thus insuring proper storage of all bottled gas requirements at DATP.

SP#5a:

This subproject will provide for the demolition of existing fuel oil storage tanks, pump house, and associated lines. This subproject will also construct new cribs, curbing, fencing and repair existing drum racks to provide proper and safety approved storage.

1. COMPONENT Army	FY 1984 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 31 Jan 83
3. INSTALLATION AND LOCATION Detroit Arsenal Tank Plant Warren, MI		
4. PROJECT TITLE Production Support & Equipment Replacement for the DATP		5. PROJECT NUMBER 4846036
10. DESCRIPTION (Continued)		
<p>SP#5b: This subproject will provide for the construction of a tramp oil storage facility that will meet all safety codes, thus insuring proper storage of tramp oil at DATP.</p> <p>SP#6: This subproject will provide for the upgrading of the coal storage and handling system, provide new instrumentation and controls, and enlargement of office and toilet facilities.</p> <p>SP#7: This subproject covers health and safety related items at DATP that are in violation of current O.S.H.A. Standards. Their rectification is advised not only to comply with existing regulation, but also to improve operational efficiency.</p>		
11. REQUIREMENT		
<p>SP#1:</p> <p>a. The canopies were framed in lightweight structural steel delivered with a factory prime coat only. They were erected but no exterior paint was applied, and after two winters, much of the prime coat has failed, especially the lower half of the columns and base plate. Two columns have been damaged by impact, buckled severely and should be replaced.</p> <p>b. The crane runway was framed from standard structural iron. The east-west sway bracking at the west end has a broken connection angle. Fifteen of the forty-seven bents have been bent at the flanges by impact. There are numerous places where the structural steel is showing rust from lack of paint.</p>		
<p>SP#2: Permanent structures such as Maintenance Offices, Quality Control Offices, MRB Office, Metallurgical Laboratory, Q.C. Laboratory, Lunch Room, Toilet Rooms, Gun Room, Reproduction/ Machine Room Storage area and Production Offices are being damaged by Material Handling Vehicles. Costly repairs must be made periodically to construct these structures. In many areas original materials of construction are no longer available, consequently, replacement with like material must be used. Damaged CMM Room are subject to expensive structural replacement. These structures by design are semi-permanent, i.e., they can be dismantled and reinstalled elsewhere. Protection must be provided for these structures.</p>		
<p>SP#3:</p> <p>a. Roof Repairs: Abandoned ducts and openings through the roof have resulted in many rain water leaks throughout the plant resulting in puddles of water in some areas, and potential water damage to critical machines in other areas. Removing these ducts and restoring the roof to its original condition will eliminate these leaks and potential problems.</p> <p>b. Roof Access: Provision of safe and convenient access to the roof is required for proper maintenance of the roof and equipment located thereon, including roof pumps, fans, ducts, fire hose cabinets, water hose valves, etc. Walkways, ladders and stairs in conformity with O.S.H.A. standards should be provided. Construction work on the roof would also benefit from better access to the roof.</p>		

1. COMPONENT Army	FY 1984 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 31 Jan 83
3. INSTALLATION AND LOCATION Detroit Arsenal Tank Plant Warren, MI		
4. PROJECT TITLE Production Support & Equipment Replacement for the DATP		5. PROJECT NUMBER 4846036
11. REQUIREMENT Continued)		
<p>SP#4:</p> <p>a. Insufficient venting in area of flammable gas storage, new gases have been introduced to meet current production demand making original storage area insufficient.</p> <p>b. Flood conditions occur with ice and snow thawing, heavy rains and ponding. Adjacent grade levels are on the same elevation with existing structure floor line.</p> <p>c. Present electrical service is in need of repair - lighting, switches, conduit are non-operational due to aging.</p> <p>d. General structure has deteriorated to a point presently that sections of roof and sidewalls must be replaced. Present gates cannot be properly secured.</p> <p>e. Insufficient roadway clearances to adjacent heavy traffic area. Also, location of existing structure presents a hazard to local working personnel, main electrical switch gear room, and Edison Transformers #1 and #2, waste oil transfer pad and 8000 gallon reservoir.</p> <p>SP#5a:</p> <p>Only (1) crib is available and shared by all user groups. Production is the primary user while the other two (2) groups are partially in there or left outdoors at random, i.e., along driveways and anywhere space is available. Some barrels are misplaced, eventually labels deteriorate, barrels rust out and the item can only be declared scrap.</p> <p>SP#5b:</p> <p>The original intent was to store waste machine cutting oils in volume adequate to require vendor pick-up not more often than once per week. All the machines for the production program are not installed at this point in time, however, vendor is coming in two or three times per week to pump out the 8,000 gallons tramp oil capacity. The leaking concrete vault should be filled and closed to comply with present EPA Regulations.</p> <p>SP#6:</p> <p>a. <u>Coal Storage and Handling System:</u> Revisions to the coal storage and handling system are required to update the worn system presently in use and to meet air pollution requirements.</p> <p>b. <u>New Instrumentation and Controls for all Boilers Including Oxygen Analyzers and Controls:</u> Inoperative and unserviceable instruments and controls do not allow efficient operation of powerhouse equipment.</p> <p>c. <u>Office Expansion:</u> Expanded office to provide desk and filing cabinet space for Chief Engineer and Assistant. This will free the existing office for use by Shift Engineers and Clerk, plus additional filing cabinets.</p> <p>d. <u>Toilet Facility Expansion:</u> Toilet facilities do not meet the requirement of OSHA Chapter XVII, Subpart J - General Environmental Controls 19.10.141 par (c) toilet facilities. Toilet facilities are to be provided for women and expanded facilities are needed for men.</p>		

1. COMPONENT Army	FY 1984 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 31 Jan 83
3. INSTALLATION AND LOCATION Detroit Arsenal Tank Plant Warren, MI		
4. PROJECT TITLE Production Support & Equipment Replacement for the DATP		5. PROJECT NUMBER 4846036
11. REQUIREMENT (Continued)		
<p>SP#7:</p> <p>a. Existing ladder extends to a height of 150' without interruption. It is structurally sound but has no intermediate rest platforms. Current O.S.H.A. regulations on ladders 1910.27 (d) (2) require platforms to be built every 30' of vertical distance of ladders. Existing ladder cannot be modified to meet requirements.</p> <p>b. Maintenance paint storage, mixing and spraying is accomplished in subst. and facilities. As they are located in the main manufacturing building, adjacent to a two story office structure, the potentials of fire damage are significant. Facilities are needed by Maintenance for storage, mixing and spraying of paint which will meet O.S.H.A. Regulations, 1910.106 and 1910.107. Space will be available in Bldg S-58 with the phasing out of the M-48 Kit Program. Demolition of the interior climate control shell will be necessary.</p> <p>c. Plant egress lighting is currently non-existing. There are currently no signs in Bldg #4 directing to or denoting exits. Such signing is required by N.F.P. Life Safety Code.</p> <p>d. Dock Levelators are unsafe because of pinch points and jarring transitions from ramps to horizontal dock surfaces. Levelators do not conform to existing safety requirements of O.S.H.A. 1910-179(e)(6). They are needed for six (6) truck wells.</p> <p>e. A corner is extremely difficult to negotiate and quite dangerous. It presents an opening of only 10 feet. Existing corner is to be brought to conformity with O.S.H.A. 1910.22(b) and 1910.176(a). This will allow safer negotiation by load bearing vehicles.</p> <p>f. Ventilation ducts terminate in louvers in South wall below top of building. Fumes are not being properly evacuated and can re-enter building. Fumes from stacks are to discharge above air intakes on roof to prevent fume re-entry into building (O.S.H.A.1910-107(d)).</p>		

1. COMPONENT Army		FY 1984 MILITARY CONSTRUCTION PROJECT DATA		2. DATE 31 Jan 83	
3. INSTALLATION AND LOCATION Stratford Army Engine Plant, Stratford, CT			4. PROJECT TITLE SPT-Facility Rehabilitation for the Stratford Army Engine Plant		
5. PROGRAM ELEMENT		6. CATEGORY CODE	7. PROJECT NUMBER 7848174		8. PROJECT COST (\$000) 6000
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)
SP #	DESCRIPTION				FY 84
82/1	Chemical Waste Treatment			LS	3412
84/1	Electrical Control & Secondary Voltage System			LS	1553
84/6	Inside Roof Repairs - Bldg 2			LS	254
Sub Total					5219
Contingency (9.5%)					495
Total Contract Cost					5714
Supervision, Inspection and Overhead (5%)					286
Total Request					6000
<p>10. DESCRIPTION OF PROPOSED CONSTRUCTION - This FY 84 RP Facility rehabilitation effort is a continuation of the accelerated upgrade to normal operating standards that began in FY 77. While this funding effort is reduced from prior years, the initial upgrade is not complete and will continue thru FY 85. The type of rehabilitation proposed is self-explanatory from the sub-project titles and many are continued phases from prior years.</p>					
<p>11. REQUIREMENT:</p> <p>PROJECT: Annual funding for non-recurring rehabilitation projects for Government Owned Industrial facilities to support current production and mobilization requirement.</p> <p>REQUIREMENT: This facility is the sole source of T53, T55 and the AGT 1500 turbine engines used in the UH-1, AH-1, and CH-47 helicopters, the OV-1 aircraft and the XM1 tank.</p> <p>CURRENT SITUATION: Responsibility for the Stratford Army Engine Plant was given to the Army in FY 77. Previously, it was the responsibility of the Air Force and known as Air Force Plant #43. It has an area of 77 acres, 1.5 million square feet of factory and office space, approximately 2500 machine tools, 34 test cells and over 4,000 employees. There are over 60 buildings of various constructions and sizes, built from 1929 to 1973. The reason for the severe deterioration of this facility is the inadequate funding for rehabilitation by the Air Force prior to FY 77.</p>					

1. COMPONENT Army	FY 19 84 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 31 Jan 83 (B2)
3. INSTALLATION AND LOCATION Stratford Army Engine Plant, Stratford, CT.		
4. PROJECT TITLE SPT-Facility Rehabilitation for the Stratford Army Engine Plant (SAEP)		5. PROJECT NUMBER 7848174
<p>11. REQUIREMENT (Continued):</p> <p><u>IMPACT IF NOT PROVIDED:</u> If funds for this program are not provided, and the plant or sections of the plant become untenable as a result of Federal, State, or Local restrictions, and/or failure to properly maintain the facility, operations in the affected areas would cease or, at least, be curtailed with the resultant deleterious effect on current Gas Turbine Engine Production for the Army, R&D Programs, and potential effect on any Mobilization Program.</p> <p><u>ECONOMIC ANALYSIS:</u> AR 11-28 has been considered for each sub-project and a detailed economic analysis is deemed not applicable as there is no alternative, para 1-3b.</p>		

1. COMPONENT Army		FY 1984 MILITARY CONSTRUCTION PROJECT DATA		2. DATE 31 Jan 83	
3. INSTALLATION AND LOCATION Mainz Army Depot Mainz, Germany			4. PROJECT TITLE Modernization Expansion of MZAD Complex		
5. PROGRAM ELEMENT		6. CATEGORY CODE		7. PROJECT NUMBER 4842006	
8. PROJECT COST (\$000) 15,771					
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)
PRIMARY FACILITY					14,103
MOD/EXP TEST TRK		LS			(2846)
UHLER SITE DEVEL		LS			(8446)
ANNEX TO MAINT BLDG 6004					(1373)
ALT OF HEAT PLANT					(1438)
SUPPORTING FACILITY					0
SUBTOTAL					14,103
CONTINGENCY PERCENT (5.00%)					705
TOTAL CONTRACT COST					14,808
SUPERVISION INSP & OHEAD (6.50%)					963
TOTAL REQUEST					15,771*
INSTALLED EQUIPMENT - OTHER APPROP					(0)
* Excludes the subproject for design for following year efforts.					
10. DESCRIPTION OF PROPOSED CONSTRUCTION Mod/Extension of test track by 1085 ft., includes removal and replacement of existing shop building. Completion of utilities and improvements for site development of Uhlerborn storage site, including heating and compressed air plant and mess hall/administration building. Construction of an annex to Bldg 6004 to house an expanded repair/overhaul capability for engines and transmissions. Expansion of the capacity of the MZAD Heating Plant.					
11. REQUIREMENT: 38680 SF ADEQUATE: 0 SF SBSTD: 0 SF					
PROJECT: This project is needed to provide additional work space that will be required to perform the expanding mission at MZAD. With a projected direct labor workload increase of 70% between FY 82 and FY 88, new capital equipment and buildings will be required at MZAD. This project will provide only for the construction of facilities; equipment projects associated with specific weapon systems are submitted separately.					
REQUIREMENT: The Mainz Army Depot is a physically constrained facility. The workload for the weapon systems presently in USAREUR exceeds the capacity of the depot (2.5 million manhours) by 500,000 manhours and is currently being met through a subcontracting effort. The additional workload required for the repair/overhaul of the modernization systems cannot be met without modernizing existing facilities by replacing existing temporary facilities with permanent structures, expanding the MZAD complex by constructing facilities at the Uhlerborn storage point and modernizing and expanding the support facilities at MZAD.					

1. COMPONENT Army	FY 1984 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 31 Jan 83									
3. INSTALLATION AND LOCATION Mainz Army Depot Germany											
4. PROJECT TITLE Modernization - Expansion of MZAD Complex		5. PROJECT NUMBER 4842006									
<p>CURRENT SITUATION: This project is intended to expand the MZAD complex so that the projected increased workload due to conversions of existing systems and the introduction of new systems into USAREUR can be met. The MZAD capacity is presently constrained by the facility and is 2.5 million manhours of direct labor effort. In order to meet its current repair/overhaul missions requirements, MZAD subcontracts nearly 500,000 manhours of direct labor workload.</p> <p>IMPACT IF NOT PROVIDED: Should this project not be approved, MZAD will be unable to satisfy the repair/overhaul requirement for the new weapon systems being fielded in Europe or to perform the scheduled conversion programs on systems presently fielded in Europe, which will involve an estimated 2.6 million manhours of direct labor by FY88 over the MZAD current capacity of 2.5 million manhours. Failure to provide for the onconus maintenance of the USAREUR combat vehicle fleet will result in a significant degradation in the combat readiness of USAREUR or require costly second destination transportation of vehicles and components and necessitate having an extensive maintenance float in Europe. These facility projects are necessary to meet an imminent demand for repair/overhaul capability. Delay of the projects will require that interim, inefficient (and therefore costly) means be employed to attempt to satisfy the repair/overhaul requirement.</p> <p style="text-align: right;">/s/ JAMES M. DURHAM COL, OD COMMANDER</p> <table> <tr> <td>ESTIMATED CONSTRUCTION START:</td> <td>MARCH 1984</td> <td>INDEX: 1408</td> </tr> <tr> <td>ESTIMATED MIDPOINT OF CONSTRUCTION:</td> <td>MARCH 1985</td> <td>INDEX: 1479</td> </tr> <tr> <td>ESTIMATED CONSTRUCTION COMPLETION:</td> <td>APRIL 1986</td> <td>INDEX: 1550</td> </tr> </table>			ESTIMATED CONSTRUCTION START:	MARCH 1984	INDEX: 1408	ESTIMATED MIDPOINT OF CONSTRUCTION:	MARCH 1985	INDEX: 1479	ESTIMATED CONSTRUCTION COMPLETION:	APRIL 1986	INDEX: 1550
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ESTIMATED MIDPOINT OF CONSTRUCTION:	MARCH 1985	INDEX: 1479									
ESTIMATED CONSTRUCTION COMPLETION:	APRIL 1986	INDEX: 1550									

1. COMPONENT Army	FY 1984 MILITARY CONSTRUCTION PROJECT DATA		2. DATE 31 Jan 83
3. INSTALLATION AND LOCATION Ethan Allen Firing Range, Jericho, VT		4. PROJECT TITLE Spt-Annual Support for Ethan Allen Firing Range	
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER 6846986	8. PROJECT COST (\$000) 246.2

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)
SP# DESCRIPTION				
84-1 Impact Area Lanes 7 & 8			LS	33.0
84-2 Loading Dock, Bldg. 231			LS	50.9
84-3 Power Distribution Wireways, Bldg. 224			LS	58.4
84-4 Communication Syst, Phase II			LS	88.6
84-5 New VADS Roof Bldg. 230			LS	15.3
				246.2

10. DESCRIPTION OF PROPOSED CONSTRUCTION

This project is designed to correct for the deterioration of existing facilities and to improve upon the safe and efficient operation of the firing range.

SP #1:

This subproject provides for an impact area to contain ricochets, prevent grass fires caused by ricocheting and tracer ammunition and stop the erosion of the bank which now serves as the impact area.

SP #2:

This subproject provides for the construction of a loading dock at the South end of building 232 and a 5 foot wide access door to be cut through the South wall. This would permit direct unloading of the 575 round ammo cans as well as direct loading of palletized 20mm and 25mm ammunition.

SP #3:

→ This subproject provides for physically separating all high and low voltage wiring in the main range building for full compliance with NEMA and OSHA standards.

SP #4:

This subproject is the second and completion phase of the work started in FY 83. This provides for an integrated range-wide safety communication and security system which will

1. COMPONENT Army	FY 19 84 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 31 Jan 83
3. INSTALLATION AND LOCATION Ethan Allen Firing Range, Jericho, VT.		
4. PROJECT TITLE Spt-Annual Support for Ethan Allen Firing Range		5. PROJECT NUMBER 6846986
10. DESCRIPTION OF PROPOSED CONSTRUCTION (Cont'd) SP #4 (Cont'd): enhance security and improve safety by upgrading and expanding the existing communications/surveillance system. SP #5: This subproject provides for a new VADS roof (bldg. 230). The present roof will be completely dismantled and removed and replaced by a similar corrugated roof with new seals and fastening hardware. 11. REQUIREMENT <u>PROJECT:</u> Annual support for the Ethan Allen Firing Range. <u>REQUIREMENT:</u> This project is required to prevent deterioration of existing facilities, improve efficiency of loading/storage operation, enhance security and improve upon the safe operation of the firing range. <u>CURRENT SITUATION:</u> Existing facilities are deteriorating and/or do not provide efficient or safe operation. Specifically: (1) The impact area has severe erosion and ricocheting is a continual problem; (2) The present loading and storage of large ammunition cans is labor intensive and inefficient; (3) High and Low voltage wires in the main range building are not physically separated as required by NEMA and OSHA standards; (4) The communications/surveillance system is not in integrated range-wide system that enhances security and provides adequate safety; and (5) Damage invariably occurs during the winter months when ice forms water dams on the VADS roof and causes leaks <u>IMPACT IF NOT PROVIDED:</u> If not provided, there will be increased deterioration of existing facilities and inefficient operations will continue without meeting necessary NEMA, OSHA, Safety and security requirements.		

1. COMPONENT ARMY		FY 19 84 MILITARY CONSTRUCTION PROJECT DATA			2. DATE 31 Jan 83	
3. INSTALLATION AND LOCATION Iowa Army Ammunition Plant Middletown, Iowa			4. PROJECT TITLE Replace Rail-Dock and Barricades			
5. PROGRAM ELEMENT 78011A		6. CATEGORY CODE 226	7. PROJECT NUMBER B575-41 (5845333-14)		8. PROJECT COST (\$000) 2.000	
9. COST ESTIMATES						
ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)	
Primary Facility					1,794	
Pre-engineered Metal Dock Bldg		SF	16,800	40.00	(672)	
T-Barricade		EA	1	38,140	(338)	
Exterior Barricades		EA	2	83,500	(167)	
Railroad Trackage (Relocation & New)				LS	(147)	
Electrical Work				LS	(13)	
Paving (199) Fencing (13)				LS	(212)	
Storm Drainage (131) Site Work (45)				LS	(176)	
Demolition				LS	(69)	
Subtotal					1,794	
Contingency (5%)					90	
Total Contract Cost					1,884	
Supervision, Inspection & Overhead (5%)					94	
Total Request					1,978	
Total Request (Rounded)					2,000	
Installed Equipment - Other Appropriations					(0)	
10. DESCRIPTION OF PROPOSED CONSTRUCTION						
<p>Replace rail car loading dock building and three explosion protection barricades on production line 3A and relocate railroad trackage. Includes electrical work, paving, fencing, storm drainage, site work and demolition. Not sited in a flood plain.</p>						
11. REQUIREMENT:						
<p>PROJECT: Replace railroad car loading dock and three explosion protection barricades.</p> <p>REQUIREMENT: This project is required to provide adequate railcar loading facilities and explosion protection barricades on Production Line 3A at this plant.</p> <p>CURRENT SITUATION: Existing facilities were built in 1940 and have deteriorated over the past 42 years to the point that repair is not economical and replacement is necessary. One barricade has developed a list of approximately two feet due to failure of its foundation. The structural integrity of the existing dock and the explosion protection barricades cannot be assured in the event of a mishap. This project will include relocation of trackage to provide a separation distance of 41 feet between rail cars on opposite sides of the T-Barricade to permit 50,000 pounds of high explosive per side. The increased separation distance is required by safety regulations. The present separation distance is only 19 feet when rail cars are on opposite sides of the existing T-Barricade.</p> <p>IMPACT IF NOT PROVIDED: If this project is not approved, the safety of workers, plant buildings and production line equipment cannot be assured in the event of an explosive accident.</p>						

1. COMPONENT ARMY		FY 19 84 MILITARY CONSTRUCTION PROJECT DATA			2. DATE 31 Jan 83	
3. INSTALLATION AND LOCATION Lake City Army Ammunition Plant Independence, Missouri				4. PROJECT TITLE Fire Alarm System		
5. PROGRAM ELEMENT 78011A		6. CATEGORY CODE 880		7. PROJECT NUMBER B533-25 (5845332-20)		8. PROJECT COST (\$000) 380
9. COST ESTIMATES						
ITEM				U/M	QUANTITY	UNIT COST
Central Fire Alarm Reporting System						342
Control Panels				EA	20	5,700 (114)
Alarm Transmitters				EA	51	2,700 (138)
Central Receiver Console Assembly				EA	1	38,800 (39)
Electrical Work, Conduits, Conductors						LS (51)
Subtotal						342
Contingency (5 %)						17
Total Contract Cost						359
Supervision, Inspection & Overhead (5%)						18
Total Request						377
Total Request Rounded						380
Installed Equipment - Other Appropriations						(0)
10. DESCRIPTION OF PROPOSED CONSTRUCTION Install central fire alarm reporting system to include FM radio alarm transmitters, control panels, central receiver console, necessary conduits, conductors and electrical work. Not sited in a flood plain.						
11. REQUIREMENT: PROJECT: Install FM radio type central fire alarm reporting system. REQUIREMENT: This project is required to provide an adequate fire alarm reporting system for this ammunition plant. CURRENT SITUATION: The existing fire alarm system is 39 years old, has served beyond its useful life span and requires replacement. The existing equipment is obsolete and costly to maintain because parts are not available and must be hand made when replacement is needed. The existing system is not in accord with the National Fire Code in that it does not report the specific location of an alarm, but only the building that the alarm is in. The proposed system will correct that deficiency. The existing system often becomes inoperable during electrical storms. IMPACT IF NOT PROVIDED: Continued use of the existing, obsolete system could result in a great loss of production capability from fire and/or the injury or death of personnel at this plant.						

1. COMPONENT ARMY		FY 19 84 MILITARY CONSTRUCTION PROJECT DATA		2. DATE 31 Jan 83	
3. INSTALLATION AND LOCATION Lake City Army Ammunition Plant Independence, Missouri			4. PROJECT TITLE Fuel Oil Tank Replacement		
5. PROGRAM ELEMENT 78011A		6. CATEGORY CODE 411	7. PROJECT NUMBER B533-26 (5845332-24)		8. PROJECT COST (\$000) 220
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)
Primary Facility					
Steel Storage Tank (223,000 Gal)		EA	1	104,000	197
Tank and Suction Heater Systems				LS	(104)
Valves and Piping				LS	(29)
Electrical Work				LS	(12)
Concrete Foundation for Tank				LS	(2)
Paving Removals and Replacement				LS	(11)
Demolition				LS	(14)
Subtotal					(25)
Contingency (5 %)					197
Total Contract Cost					10
Supervision, Inspection & Overhead (5%)					207
Total Request					10
Total Request (Rounded)					217
Installed Equipment - Other Appropriations					220
					(0)
10. DESCRIPTION OF PROPOSED CONSTRUCTION					
Construct steel, above-ground oil storage tank on concrete foundation. Work includes tank and suction line heaters, valves and piping, electrical work, paving and demolition of existing concrete oil storage tank. Not sited in a flood plain.					
11. REQUIREMENT:					
PROJECT: Construct new steel, above-ground fuel oil storage tank.					
REQUIREMENT: This project is required to replace a 43 year old deteriorated, above-ground, concrete oil storage tank that has outlived its useful life span.					
CURRENT SITUATION: The existing concrete tank leaks excessively and pollutes the groundwater. The tank was lined 12 years ago, but subsequent settlement and deterioration has caused additional leakage to the extent that replacement is required to stop the loss of oil and effect compliance with Federal and State water pollution abatement regulations.					
IMPACT IF NOT PROVIDED: If this project is not approved, the loss of oil, groundwater pollution and potential fire hazard will continue.					

1. COMPONENT ARMY		FY 19 84 MILITARY CONSTRUCTION PROJECT DATA			2. DATE 31 Jan 83	
3. INSTALLATION AND LOCATION Lone Star Army Ammunition Plant Texas				4. PROJECT TITLE Land Mine Production Facilities		
5. PROGRAM ELEMENT 78011A		6. CATEGORY CODE 226		7. PROJECT NUMBER B454-28 (5842041)		8. PROJECT COST (\$000) 1.300
9. COST ESTIMATES						
ITEM				U/M	QUANTITY	UNIT COST (\$000)
Primary Facility (See Block 10 below for description of work)						1,170
(a) Building F-5, Explos Screen & Blend Bldg					LS	(101)
(b) Building F-7, Pellet & Main Charge Mfg					LS	(215)
(c) Building F-11, Booster Pellet Mfg					LS	(133)
(d) Building F-13, Main Charge Mfg & Load					LS	(218)
(e) Building F-23, Melt-Pour & Mine Case Assy					LS	(118)
(f) Wastewater Treatment Plant					LS	(385)
Subtotal						1,170
Contingency (5%)						59
Total Contract Cost						1,229
Supervision, Inspection & Overhead (5%)						61
Total Request						1,290
Total Request (Rounded)						1,300
Installed Equipment - Other Appropriations						(9,786)
10. DESCRIPTION OF PROPOSED CONSTRUCTION Existing buildings (Items a thru e in Block 9 above) require upgrading of building washdown and wastewater collection systems and minor structural/arch alterations. Additional work in the buildings includes: In Item (b) modify interior walls; (c) modify bays 12, 13 and 14 and install exterior wall; (d) replace conductive flooring in bays 1 thru 7 and modify interior walls; in Item (e) install additional steam headers, construct washrack and install two non-combustible insulated partitions in cooling bay. Item (f) is construction of a new wastewater treatment plant for process water from Area F. Not sited in a flood plain.						
11. REQUIREMENT: PROJECT: Modify/construct facilities for the production of scatterable type land mines. REQUIREMENT: This project is required to manufacture a family of scatterable type land mines, place the mines into the appropriate dispensers, and pack the loaded dispensers into containers for ship-out. This project will establish a production base to support planned requirements of the Army, Navy and Air Force for the scatterable type mines. CURRENT SITUATION: There is presently no capability at this plant for production of scatterable mines. This project will modify existing buildings in the F Area of the plant for use in the production of the mines and will include a process-wastewater treatment facility to meet water pollution abatement control requirements. IMPACT IF NOT PROVIDED: If this project is not approved there will be insufficient production base to support the peacetime or the mobilization level requirements for scatterable type mines.						

1. COMPONENT ARMY		2. DATE FY 19 84 MILITARY CONSTRUCTION PROJECT DATA			31 Jan 83
3. INSTALLATION AND LOCATION Longhorn Army Ammunition Plant Marshall, Texas			4. PROJECT TITLE Shield Test Facility		
5. PROGRAM ELEMENT 78011A	6. CATEGORY CODE 226	7. PROJECT NUMBER B434-26 (584537-15)	8. PROJECT COST (\$000) 270		
9. COST ESTIMATES					
ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)	
Primary Facility					246
Shield Testing Structure			LS		(195)
Mechanical Systems			LS		(8)
Electrical Systems & Service			LS		(27)
Paving			LS		(14)
Site Improvements			LS		(2)
Subtotal					246
Contingency (5%)					12
Total Contract Cost					258
Supervision, Inspection & Overhead (5%)					13
Total Request					271
Total Request (Rounded)					270
Installed Equipment - Other Appropriations					(126)
10. DESCRIPTION OF PROPOSED CONSTRUCTION Construct reinforced concrete structure for shield testing. Work includes mechanical and electrical systems, paving and site work. Not sited in a flood plain.					
11. REQUIREMENT: PROJECT: Construct a structure for live explosive testing of shields used to protect production line workers. REQUIREMENT: A live explosive testing facility is required to ensure the adequacy of protective shields installed along production lines at points of hazardous operations to protect personnel in the event of an explosion on the production line. CURRENT SITUATION: There are no existing facilities for such tests, or that can be economically modified to satisfy the requirement and effect compliance with the safety requirement for ammunition production plants. Adequate protective shields minimize injury to operating personnel and loss of production in the event of an accidental explosion. IMPACT IF NOT PROVIDED: If this project is not approved, production workers will continue to be exposed to undue hazard through the use of protective shields whose adequacy has not been verified by live explosive testing.					

1. COMPONENT ARMY		FY 19 ⁸⁴ MILITARY CONSTRUCTION PROJECT DATA		2. DATE 31 Jan 83	
3. INSTALLATION AND LOCATION Milan Army Ammunition Plant Milan, Tennessee			4. PROJECT TITLE On-Line Storage Facility		
5. PROGRAM ELEMENT 78011A		6. CATEGORY CODE 226	7. PROJECT NUMBER B343-39 (5845317-14)	8. PROJECT COST (\$000) 340	
B. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)
<u>Primary Facility</u>					340
Pre-Engineered Building		SF	12,600	15.95	201
Electric Service				LS	4
Paving		SY	3,480	18.10	63
Fencing (Removals & New)				LS	9
Storm Drainage				LS	3
Site Improvement				LS	26
Subtotal					306
Contingency (5%)					15
Total Contract Cost					321
Supervision, Inspection & Overhead (5%)					16
Total Request					337
Total Request (Rounded)					340
Installed Equipment - Other Appropriations					(0)
<p>1a. DESCRIPTION OF PROPOSED CONSTRUCTION Construct pre-engineered metal storage building (shed) with open sides on concrete slab. Provide lightning protection, area lighting for night work, paving, fencing, drainage and site work. Not sited in a flood plain.</p> <p>REQUIREMENT:</p> <p>PROJECT: Construct a prefabricated metal shed type building for storage of inert dunnage items used on Production Line B.</p> <p>REQUIREMENT: This project is required to protect from the elements wooden ammunition boxes and pallets used for ship-out of ammunition end items. Protection from the weather is necessary to prevent the materials from becoming wet, discolored and mildewed. Such conditions would cause their rejection for use in production operations.</p> <p>CURRENT SITUATION: The present system of storing dunnage materials on outdoor pads and covering with tarpaulins, plastic, etc., does not prevent the accumulation of moisture under such coverings which subsequently results in too high a moisture content in the dunnage material, discoloration and mildew.</p> <p>IMPACT IF NOT PROVIDED: If this project is not approved, the loss of dunnage materials due to damage from exposure to the elements will continue and estimated cost savings of \$8,000 per year cannot be realized.</p>					

1. COMPONENT ARMY		FY 19 ⁸⁴ MILITARY CONSTRUCTION PROJECT DATA		2. DATE 31 Jan 83	
3. INSTALLATION AND LOCATION Radford Army Ammunition Plant Radford, Virginia			4. PROJECT TITLE 155mm Stick Propellant Manufacturing Facility		
5. PROGRAM ELEMENT 78011A		6. CATEGORY CODE 226		7. PROJECT NUMBER B224-88 (5840084)	
8. PROJECT COST (\$000) 2,100					
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)
Primary Facility (See Block 10 below for description of work)					1,895
(a) Building 3613, Press & Boarding Areas				LS	(198)
(b) Building 3722, Saw House				LS	(305)
(c) Building 3723, Saw House				LS	(294)
(d) Building 3741, Sorting & Pack-out Bldg				LS	(327)
(e) Six Buildings in 4912 Area, Drying Bldgs				LS	(571)
(f) Building 7140, Stick Blending House				LS	(157)
(g) Site Work				LS	(43)
Subtotal					1,895
Contingency (5%)					95
Total Contract Cost					1,990
Supervision, Inspection & Overhead (5%)					100
Total Request					2,090
Total Request (Rounded)					2,100
Installed Equipment - Other Appropriations					(1,066)
10. DESCRIPTION OF PROPOSED CONSTRUCTION Existing buildings (Items a thru f in Block 9 above) require minor arch/structural alterations. Additional work in the buildings includes: In Item (a) Enclose passageways between the Press and Boarding Areas and install Ultra High-speed Fire Protection (UHFP) Sprinkler System; (b), (c) and (d) install heating systems, waste systems, UHFP and loading docks; in Item (e) provide individual-bay temperature controls; (f) Install UHFP. Not sited in a flood plain.					
11. REQUIREMENT:					
PROJECT: Alter existing buildings for use in long-stick propellant production.					
REQUIREMENT: This project is required to meet requirements for production of long-stick propellant that is used in the propelling charge of the 155mm M198 Howitzer.					
CURRENT SITUATION: The present capability to produce 50,000 pounds of propellant per month must be expanded to 200,000 pounds per month. This project will provide for alterations of production facilities now in lay-away status for use in meeting the production levels required for long-stick type propellant. The proposed facilities will be used to manufacture and pack-out the propellant charges.					
IMPACT IF NOT PROVIDED: The capability to produce 155mm long-stick propellant will be limited to 50,000 pounds per month and neither peacetime nor mobilization production requirements can be met.					

1. COMPONENT ARMY		FY 19 ⁸⁴ MILITARY CONSTRUCTION PROJECT DATA		2. DATE 31 Jan 83	
3. INSTALLATION AND LOCATION Radford Army Ammunition Plant Radford, Virginia			4. PROJECT TITLE Fuel Storage Facilities		
5. PROGRAM ELEMENT 78011A	6. CATEGORY CODE 442	7. PROJECT NUMBER B224-86) (5845326-14)	8. PROJECT COST (\$000) 870		
9. COST ESTIMATES					
ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)	
Primary Facility					786
Storage Tanks (5)			LS		(190)
Fuel Pumps, Dispensers, Air Comp'rs.			LS		(25)
Accounting Data Micro Press'r System			LS		(160)
Piping, Fittings, Valves			LS		(44)
Pollution Abatement Devices			LS		(133)
Electrical Work			LS		(25)
Paving			LS		(117)
Storm Drainage (24) Site Work (68)			LS		(92)
Subtotal					786
Contingency (5%)					39
Total Contract Cost					825
Supervision, Inspection & Overhead (5%)					41
Total Request					866
Total Request (Rounded)					870
Installed Equipment - Other Appropriations					(0)
10. DESCRIPTION OF PROPOSED CONSTRUCTION					
Construct fuel storage and dispensing facility to include 4 - 20,000 gallon gasoline tanks, 1 - 25,000 gallon diesel fuel tank, pumps, computer terminal and software for accounting data, pipe and fitting, electrical work, pollution control devices, paving, storm drainage and site work. Not sited in a flood plain.					
11. REQUIREMENT:					
PROJECT: Construct a central storage and dispensing facility for motor vehicle fuels.					
REQUIREMENT: This project is required to provide an adequate full storage and dispensing facility that will ensure dependable fuel supply for mobilization and replace the existing substandard vehicle-fuel storage facilities.					
CURRENT SITUATION: The existing fuel storage is scattered at several locations on the installation, requiring multiple handling of fuels and extensive product inventory. The present facilities were installed in the 1940-41 period and their deteriorated condition due to age is evidenced by the failure of several of the storage tanks. Their structural integrity cannot be assured and replacement is necessary to ensure a dependable fuel supply and ensure against probable groundwater pollution due to leaking fuel. A storage capability of 80,000 gallons of gasoline and from 24 to 25,000 gallons of diesel fuel (30 day supply) is required.					
IMPACT IF NOT PROVIDED: If this project is not provided, the use of the aged unreliable tankage, subject to rupture and spillage, could result in the pollution of groundwaters, or of the New River, and potential for a major fire hazard will continue to exist.					

1. COMPONENT ARMY	FY 19 ⁸⁴ MILITARY CONSTRUCTION PROJECT DATA			2. DATE 31 Jan 83
3. INSTALLATION AND LOCATION Radford Army Ammunition Plant Radford, Virginia		4. PROJECT TITLE Barricades		
5. PROGRAM ELEMENT 78011A	6. CATEGORY CODE 226	7. PROJECT NUMBER B224-87 (5845326-15)	8. PROJECT COST (\$000) 1,650	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)
<u>Primary Facility</u>				1,498
Barricades (8)			LS	(1,127)
Electric Service			LS	(100)
Utilities			LS	(113)
Demolition			LS	(158)
Subtotal				1,498
Contingency (5%)				75
Total Contract Cost				1,573
Supervision, Inspection & Overhead (5%)				79
Total Request				1,652
Total Request (Rounded)				1,650
Installed Equipment - Other Appropriations				(0)
10. DESCRIPTION OF PROPOSED CONSTRUCTION				
<p style="text-align: center;">Removal and replacement of barricades for 8 active propellant production buildings. Work includes removal and reinstallation of utilities, process piping and duct work attached to or passing through the barricades and removal and replacement of roofs, floor structures and escape chutes attached to barricades.</p>				
11. REQUIREMENT:				
<p>PROJECT: Replacement of 8 double-revetted, wooden, earth filled barricades at Radford Army Ammunition Plant (AAP). This project is the fifth increment of an annual barricade replacement program at this plant.</p>				
<p>REQUIREMENT: This project is required to provide adequate, safe barricades to enable the AAP to operate within existing intraline explosive quantity distances.</p>				
<p>CURRENT SITUATION: Most of the barricades at this AAP were originally erected during 1940-41. For some time it has been necessary to do extensive repair work each year to keep them in a structurally safe and sound condition. Because of the accelerating rate of deterioration, repair can no longer keep pace with requirements. Radford AAP has 240 barricades at explosive production buildings which are required to maintain current and mobilization production schedules. Of this number, 142 can be maintained in satisfactory condition for the next 20 years and projects will be submitted in future program years to replace remaining unserviceable barricades--the most deteriorated ones first.</p>				
<p>IMPACT IF NOT PROVIDED: Without adequate barricades, Radford AAP will not be able to operate within existing intraline explosive quantity distances.</p>				
<p>ADDITIONAL: Explosion protection barricades protect workers, buildings and production equipment, and prevent blast propagation in the event of mishap.</p>				

1. COMPONENT ARMY		FY 19 84 MILITARY CONSTRUCTION PROJECT DATA			2. DATE 31 Jan 83	
3. INSTALLATION AND LOCATION Scranton Army Ammunition Plant Scranton, Pennsylvania				4. PROJECT TITLE Lighting Upgrade		
5. PROGRAM ELEMENT 78011A	6. CATEGORY CODE 226	7. PROJECT NUMBER B258-10 (5845342-10)	8. PROJECT COST (\$000) 660			
9. COST ESTIMATES						
ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)		
<u>Primary Facility</u>				597		
Light Fixtures - High Pressure Sodium			LS	(258)		
Light Fixtures - Fluorescent			LS	(54)		
Light Fixtures - Misc Type			LS	(6)		
Conduits, Conductors			LS	(119)		
System Controls, Panels			LS	(76)		
Branch Panels, Energy Ltg, Misc appurt			LS	(36)		
Demolition and Removals			LS	(48)		
Subtotal				597		
Contingency (5%)				30		
Total Contract Cost				627		
Supervision, Inspection & Overhead (5%)				31		
Total Request				658		
Total Request (Rounded)				660		
Installed Equipment - Other Appropriations				(0)		
10. DESCRIPTION OF PROPOSED CONSTRUCTION Remove existing lighting and replace with high efficiency fixtures. Includes conduits, conductors, controls, main and branch panels, emergency lighting system, and required appurtenances. Not sited in a flood plain.						
11. REQUIREMENT:						
<u>PROJECT:</u> Improvement to lighting in production shop.						
<u>REQUIREMENT:</u> This project is required to enhance the safety posture, reduce electrical energy use and avoid potential production interruption due to failure of the existing aged lighting system.						
<u>CURRENT SITUATION:</u> The existing lighting system is 30 years of age and requires upgrading to effect satisfactory compliance with current DOD illumination standards for production processes that involve the operation of equipment such as large metal presses, lathes, and other rotating and/or reciprocating type machinery used in the production of projectile metal parts. The wiring of the present system, installed in 1953, has deteriorated to the extent that when replacing a component, such as a ballast transformer, it is necessary to instal new wire back to a terminal because the insulation on the wires is so brittle it falls off when disturbed.						
<u>IMPACT IF NOT PROVIDED:</u> If this project is not approved, illumination levels will remain borderline, the potential for loss of production capability due to failure of the old system will continue to exist, and savings in electricity costs estimated at \$16,000 per year cannot be realized.						

1. COMPONENT ARMY		FY 19 84 MILITARY CONSTRUCTION PROJECT DATA		2. DATE 31 Jan 83	
3. INSTALLATION AND LOCATION Scranton Army Ammunition Plant Scranton, Pennsylvania			4. PROJECT TITLE Compressed Air Dryers		
5. PROGRAM ELEMENT 78011A	6. CATEGORY CODE 226	7. PROJECT NUMBER B258-11 (5845342-13)		8. PROJECT COST (\$000) 340	
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)
<u>Primary Facility</u>					306
Air Dryers				LS	(141)
Structural Steel Supporting Platforms				LS	(70)
Piping, Valves, Pumps				LS	(72)
Electrical Work				LS	(23)
Subtotal					306
Contingency (5%)					15
Total Contract Cost					321
Supervision, Inspection & Overhead (5%)					16
Total Request					337
Total Request (Rounded)					340
Installed Equipment - Other Appropriations					(0)
<p>10. DESCRIPTION OF PROPOSED CONSTRUCTION Install dryers on compressed air systems to remove moisture from the systems. Work includes steel supporting platforms, piping, valves, pumps, and electrical work. Not sited in a flood plain.</p> <p>11. REQUIREMENT:</p> <p>PROJECT: Install dryers on compressed air systems that supply air to operate production machinery and pneumatic tools.</p> <p>REQUIREMENT: This project is required to reduce the moisture content of compressed air used to operate machinery and tools used in production operations to prevent the formation of rust and scale in the air piping and in the air-operated equipment.</p> <p>CURRENT SITUATION: The compressed air systems contain water cooled heat exchangers to cool the air, between compression stages and after all compression stages, in order to condense out moisture. However, the moisture that remains is sufficient to cause rusting and scale formation in the piping and in the air-powered equipment. The rust and scale fouls the equipment resulting in loss of production time and higher than usual maintenance costs.</p> <p>IMPACT IF NOT PROVIDED: If this project is not approved, the excess moisture in the air systems will continue to adversely affect production costs and morale of production workers.</p>					

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